

# Gianluca Milano

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3345445/publications.pdf>

Version: 2024-02-01

32  
papers

1,130  
citations

471061

17  
h-index

414034

32  
g-index

34  
all docs

34  
docs citations

34  
times ranked

901  
citing authors

#	ARTICLE	IF	CITATIONS
1	2022 roadmap on neuromorphic computing and engineering. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 022501.	2.8	217
2	In materia reservoir computing with a fully memristive architecture based on self-organizing nanowire networks. <i>Nature Materials</i> , 2022, 21, 195-202.	13.3	180
3	Self-limited single nanowire systems combining all-in-one memristive and neuromorphic functionalities. <i>Nature Communications</i> , 2018, 9, 5151.	5.8	115
4	Recent Developments and Perspectives for Memristive Devices Based on Metal Oxide Nanowires. <i>Advanced Electronic Materials</i> , 2019, 5, 1800909.	2.6	94
5	Brain-Inspired Structural Plasticity through Reweighting and Rewiring in Multi-Terminal Self-Organizing Memristive Nanowire Networks. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000096.	3.3	72
6	Multiple resistive switching in core-shell ZnO nanowires exhibiting tunable surface states. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10517-10523.	2.7	40
7	Unravelling Resistive Switching Mechanism in ZnO NW Arrays: The Role of the Polycrystalline Base Layer. <i>Journal of Physical Chemistry C</i> , 2018, 122, 866-874.	1.5	34
8	Quantum Conductance in Memristive Devices: Fundamentals, Developments, and Applications. <i>Advanced Materials</i> , 2022, 34, e2201248.	11.1	31
9	TEM Nanostructural Investigation of Ag-Conductive Filaments in Polycrystalline ZnO-Based Resistive Switching Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 29451-29460.	4.0	27
10	A multi-level memristor based on atomic layer deposition of iron oxide. <i>Nanotechnology</i> , 2018, 29, 495201.	1.3	26
11	Tuning ZnO Nanowire Dissolution by Electron Beam Modification of Surface Wetting Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8011-8021.	1.5	23
12	Water-Mediated Ionic Migration in Memristive Nanowires with a Tunable Resistive Switching Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48773-48780.	4.0	23
13	Ionic Modulation of Electrical Conductivity of ZnO Due to Ambient Moisture. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900803.	1.9	22
14	Kinetics of defect formation in chemically vapor deposited (CVD) graphene during laser irradiation: The case of Raman investigation. <i>Nano Research</i> , 2015, 8, 3972-3981.	5.8	20
15	Modeling of Short-Term Synaptic Plasticity Effects in ZnO Nanowire-Based Memristors Using a Potentiation-Depression Rate Balance Equation. <i>IEEE Nanotechnology Magazine</i> , 2020, 19, 609-612.	1.1	20
16	Connectome of memristive nanowire networks through graph theory. <i>Neural Networks</i> , 2022, 150, 137-148.	3.3	19
17	Junction properties of single ZnO nanowires with asymmetrical Pt and Cu contacts. <i>Nanotechnology</i> , 2019, 30, 244001.	1.3	18
18	Recent Advances in Sequential Infiltration Synthesis (SIS) of Block Copolymers (BCPs). <i>Nanomaterials</i> , 2021, 11, 994.	1.9	18

#	ARTICLE	IF	CITATIONS
19	Resistive switching in sub-micrometric ZnO polycrystalline films. <i>Nanotechnology</i> , 2019, 30, 065707.	1.3	17
20	Mapping Time-Dependent Conductivity of Metallic Nanowire Networks by Electrical Resistance Tomography toward Transparent Conductive Materials. <i>ACS Applied Nano Materials</i> , 2020, 3, 11987-11997.	2.4	17
21	Hydrothermally grown ZnO nanowire array as an oxygen vacancies reservoir for improved resistive switching. <i>Nanotechnology</i> , 2020, 31, 374001.	1.3	14
22	Compact Modeling of the I-V Characteristics of ZnO Nanowires Including Nonlinear Series Resistance Effects. <i>IEEE Nanotechnology Magazine</i> , 2020, 19, 297-300.	1.1	13
23	Structure-Dependent Influence of Moisture on Resistive Switching Behavior of ZnO Thin Films. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100915.	1.9	13
24	Grid-graph modeling of emergent neuromorphic dynamics and heterosynaptic plasticity in memristive nanonetworks. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 014007.	2.8	10
25	Recommended implementation of electrical resistance tomography for conductivity mapping of metallic nanowire networks using voltage excitation. <i>Scientific Reports</i> , 2021, 11, 13167.	1.6	9
26	Metal-insulator transition in single crystalline ZnO nanowires. <i>Nanotechnology</i> , 2021, 32, 185202.	1.3	8
27	Memristive devices based on single ZnO nanowires—from material synthesis to neuromorphic functionalities. <i>Semiconductor Science and Technology</i> , 2022, 37, 034002.	1.0	7
28	Memristive Devices for Quantum Metrology. <i>Advanced Quantum Technologies</i> , 2020, 3, 2000009.	1.8	6
29	Electrochemical metallization ReRAMs (ECM) - Experiments and modelling: general discussion. <i>Faraday Discussions</i> , 2019, 213, 115-150.	1.6	5
30	Brain-Inspired Structural Plasticity through Reweighting and Rewiring in Multi-Terminal Self-Organizing Memristive Nanowire Networks. <i>Advanced Intelligent Systems</i> , 2020, 2, 2080071.	3.3	4
31	In Materia Should Be Used Instead of In Materio. <i>Frontiers in Nanotechnology</i> , 2022, 4, .	2.4	4
32	Temperature study of CVD graphene on Cu thin films: competition between C catalysis and Cu dewetting. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1658, 94.	0.1	0